

# Patent [19]

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## [54] AIR CLEANING DEVICE

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## [57] ABSTRACT

**PROBLEM TO BE SOLVED:** To use a photocatalyst and to facilitate maintenance by providing a fitting mechanism so that the photocatalyst can be displaced rotationally into a state wherein the photocatalyst is retained in a retainer and held in a casing and a state wherein it is hung down below the casing.

**SOLUTION:** An air cleaning device is constructed by stacking vertically an indoor unit for air conditioning and an air cleaning unit wherein a photocatalyst purifies contaminants. A retainer 40 has a photocatalyst element 61 wherein the photocatalyst is borne by a honeycomb-shaped bearing body, a lower case 42 as a frame body to which this element is fitted removably and an elastic member 62 interposed between the lower case 42 and the photocatalyst element 61. The lower case 42 is fitted to a casing 1 by a fitting mechanism 46, in a state of the photocatalyst element 61 being fitted thereto. This fitting mechanism 46 has hinges 44 as rotatory support means and engagement tongue pieces 45. The hinges 44 are supported rotatably at one end 41m of an upper case 41 and the engagement tongue pieces 45 engage with the other end 41n of the upper case 41 so that they can be disengaged.

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